

## EPCOS Product Brief 2017

# EMC Filters

## 2-Line Filters SIFI-F, SIFI-G, SIFI-H

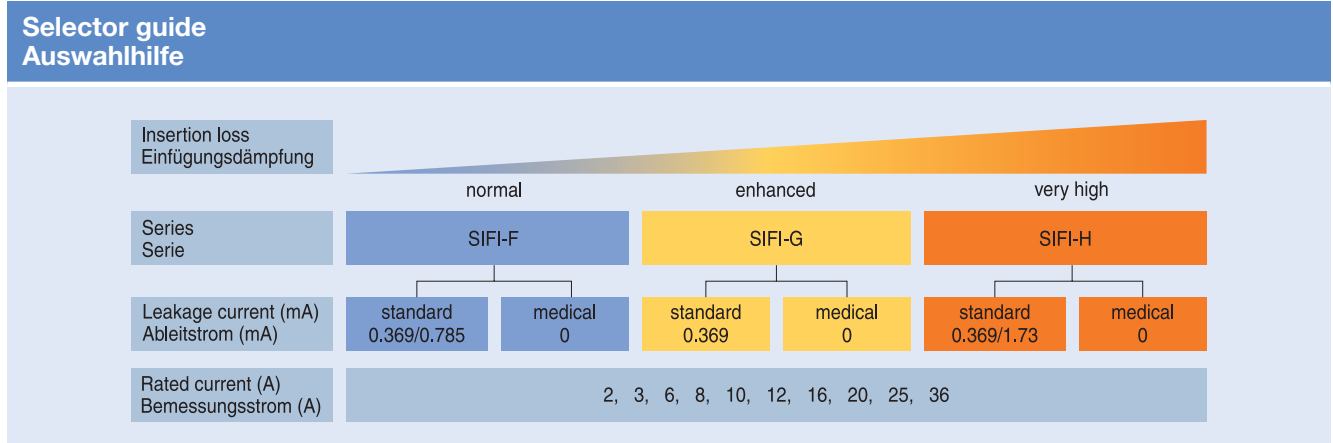
The new 2-line EMC filters of the SIFI-F/-G/-H families come as a compact modular system with minimal dimensions for different insertion loss requirements and current ratings. The series range from SIFI-F offering very good insertion loss and the smallest dimensions through to SIFI-H for maximum insertion loss. All new SIFIs are available as a standard version or a medical version with negligible leakage current. The three series offer an extended range of rated current from 2 A to 36 A at 250 V DC/AC and a climatic category (IEC 60068-1) of 25/100/21. Special construction makes the new SIFIs smaller than comparable products for significantly less cost. For product data sheets visit [www.epcos.com/emc\\_filters](http://www.epcos.com/emc_filters).

Die neuen 2-Leiter-EMV-Filter der SIFI-Familien-F/-G/-H wurden entwickelt als ein kompaktes Modulare System, das kleinste Abmessungen für die verschiedenen Dämpfungsanforderungen und Nennströme bietet. Die Serien beginnen mit SIFI-F, das neben sehr guten Dämpfungseigenschaften über die kleinsten Maße verfügt und reichen bis SIFI-H mit der höchsten Einfügungsdämpfung. Alle neuen SIFI-Serien sind als Standard- oder Medizinversion mit vernachlässigbar kleinem Ableitstrom lieferbar. Der Nennstrom reicht von 2 A bis 36 A bei 250 V DC/AC und einer Klimakategorie (IEC 60068-1) von 25/100/21. Aufgrund einer speziellen Konstruktion sind die neuen SIFIs kleiner als vergleichbare Produkte. Gleichzeitig werden die Kosten spürbar gesenkt. Datenblätter finden Sie unter [www.epcos.com/emc\\_filters](http://www.epcos.com/emc_filters).



# SIFI Series F, G, H

## Baureihe SIFI-F, -G, -H



### Technical data

### Technische Daten

$I_R$	$C_R$ (Class) (Klasse)	$L_R$	$I_{LK}$	Case Gehäuse	Dimensions (mm) Maße (mm)		Ordering code Bestellnummer	Approvals Approbationen	
A		mH	mA		$l \times b \times h$	$l_1$			
<b>SIFI-F: Standard for normal insertion loss</b> <b>SIFI-F: Standard für normale Dämpfung</b>									
3	$2 \times 0.1 \mu F (X2) + 2 \times 4700 pF (Y2)$	$2 \times 1.5$	0.369	B	$35 \times 43.5 \times 26$	60.6	B84111F0000B030	x	x
6	$2 \times 0.1 \mu F (X2) + 2 \times 4700 pF (Y2)$	$2 \times 1.8$	0.369	B	$35 \times 43.5 \times 26$	60.6	B84111F0000B060	x	x
10	$2 \times 0.1 \mu F (X2) + 2 \times 4700 pF (Y2)$	$2 \times 0.87$	0.369	B	$35 \times 43.5 \times 26$	60.6	B84111F0000B110	x	x
16	$2 \times 0.1 \mu F (X2) + 2 \times 4700 pF (Y2)$	$2 \times 0.65$	0.369	B	$48 \times 45.0 \times 26$	74.6	B84111F0000B116	x	x
20	$2 \times 0.1 \mu F (X2) + 2 \times 4700 pF (Y2)$	$2 \times 0.43$	0.369	B	$48 \times 45.0 \times 26$	74.6	B84111F0000B120	x	x
25	$2 \times 0.1 \mu F (X2) + 2 \times 4700 pF (Y2)$	$2 \times 0.66$	0.369	G	$63 \times 51.0 \times 38$	107	B84111F0000G125	x	x
36	$2 \times 0.47 \mu F (X2) + 2 \times 10 nF (Y2)$	$2 \times 0.40$	0.785	G	$63 \times 51.0 \times 38$	107	B84111F0000G136	x	x
<b>SIFI-F: Medical version for normal insertion loss</b> <b>SIFI-F: Medizinversion für normale Dämpfung</b>									
3	$2 \times 0.1 \mu F (X2)$	$2 \times 1.5$	0	B	$35 \times 43.5 \times 26$	60.6	B84111F0000M030	x	x
6	$2 \times 0.1 \mu F (X2)$	$2 \times 1.8$	0	B	$35 \times 43.5 \times 26$	60.6	B84111F0000M060	x	x
10	$2 \times 0.1 \mu F (X2)$	$2 \times 0.87$	0	B	$35 \times 43.5 \times 26$	60.6	B84111F0000M110	x	x
16	$2 \times 0.1 \mu F (X2)$	$2 \times 0.65$	0	B	$48 \times 45.0 \times 26$	74.6	B84111F0000M116	x	x
20	$2 \times 0.1 \mu F (X2)$	$2 \times 0.43$	0	B	$48 \times 45.0 \times 26$	74.6	B84111F0000M120	x	x
25	$2 \times 0.1 \mu F (X2)$	$2 \times 0.66$	0	G	$63 \times 51.0 \times 38$	107	B84111F0000M125	x	x
36	$2 \times 0.47 \mu F (X2)$	$2 \times 0.40$	0	G	$63 \times 51.0 \times 38$	107	B84111F0000M136	x	x
<b>SIFI-G: Standard for enhanced insertion loss</b> <b>SIFI-G: Standard für erhöhte Dämpfung</b>									
2	$2 \times 0.15 \mu F (X2) + 2 \times 4700 pF (Y2)$	$2 \times 12$	0.369	B	$48 \times 45 \times 26$	74.6	B84112G0000B020	x	x
3	$2 \times 0.22 \mu F (X2) + 2 \times 4700 pF (Y2)$	$2 \times 10$	0.369	B	$63 \times 51 \times 29$	89.5	B84112G0000B030	x	x
6	$2 \times 0.47 \mu F (X2) + 2 \times 4700 pF (Y2)$	$2 \times 3.3$	0.369	B	$63 \times 51 \times 29$	89.5	B84112G0000B060	x	x

x = approval granted

# SIFI Series F, G, H

## Baureihe SIFI-F, -G, -H



Technical data Technische Daten									
I <sub>R</sub> A	C <sub>R</sub> (Class) (Klasse)	L <sub>R</sub> mH	I <sub>LK</sub> mA	Case Gehäuse	Dimensions (mm) Maße (mm)		Ordering code Bestellnummer	Approvals Approbationen	
					l × b × h	l <sub>1</sub>			
<b>SIFI-G: Standard for enhanced insertion loss</b>									
<b>SIFI-G: Standard für erhöhte Dämpfung</b>									
8	2 × 0.47 µF (X2) + 2 × 4700 pF (Y2)	2 × 2.5	0.369	B	63 × 51 × 29	89.5	B84112G0000B080	×	×
10	2 × 0.68 µF (X2) + 2 × 4700 pF (Y2)	2 × 1.8	0.369	B	63 × 51 × 29	89.5	B84112G0000B110	×	×
12	2 × 0.68 µF (X2) + 2 × 4700 pF (Y2)	2 × 1.6	0.369	B	63 × 51 × 29	89.5	B84112G0000B112	×	×
16	2 × 0.47 µF (X2) + 2 × 4700 pF (Y2)	2 × 1.8	0.369	B	63 × 51 × 29	89.5	B84112G0000B116	×	×
20	2 × 1.0 µF (X2) + 2 × 4700 pF (Y2)	2 × 1.8	0.369	G	91 × 51 × 43	135	B84112G0000G120	×	×
25	2 × 1.0 µF (X2) + 2 × 4700 pF (Y2)	2 × 1.6	0.369	G	91 × 51 × 43	135	B84112G0000G125	×	×
36	2 × 1.5 µF (X2) + 2 × 4700 pF (Y2)	2 × 0.8	0.369	G	91 × 51 × 43	135	B84112G0000G136	×	×
<b>SIFI-G: Medical version for enhanced insertion loss</b>									
<b>SIFI-G: Medizinversion für erhöhte Dämpfung</b>									
2	2 × 0.15 µF (X2)	2 × 12	0	B	48 × 45 × 26	74.6	B84112G0000M020	×	×
3	2 × 0.22 µF (X2)	2 × 10	0	B	63 × 51 × 29	89.5	B84112G0000M030	×	×
6	2 × 0.47 µF (X2)	2 × 3.3	0	B	63 × 51 × 29	89.5	B84112G0000M060	×	×
8	2 × 0.47 µF (X2)	2 × 2.5	0	B	63 × 51 × 29	89.5	B84112G0000M080	×	×
10	2 × 0.68 µF (X2)	2 × 1.8	0	B	63 × 51 × 29	89.5	B84112G0000M110	×	×
12	2 × 0.68 µF (X2)	2 × 1.6	0	B	63 × 51 × 29	89.5	B84112G0000M112	×	×
16	2 × 0.47 µF (X2)	2 × 1.8	0	B	63 × 51 × 29	89.5	B84112G0000M116	×	×
20	2 × 1.0 µF (X2)	2 × 1.8	0	G	91 × 51 × 43	135	B84112G0000M120	×	×
25	2 × 1.0 µF (X2)	2 × 1.6	0	G	91 × 51 × 43	135	B84112G0000M125	×	×
36	2 × 1.5 µF (X2)	2 × 0.8	0	G	91 × 51 × 43	135	B84112G0000M136	×	×
<b>SIFI-H: Standard for very high insertion loss</b>									
<b>SIFI-H: Standard für sehr hohe Dämpfung</b>									
3	2 × 1.0 µF (X2) + 2 × 4700 pF (Y2)	4 × 5.9	0.369	B	63 × 51 × 38	89.5	B84113H0000B030	×	×
6	2 × 1.0 µF (X2) + 2 × 4700 pF (Y2)	4 × 3.6	0.369	B	63 × 51 × 38	89.5	B84113H0000B060	×	×
10	2 × 1.5 µF (X2) + 2 × 4700 pF (Y2)	4 × 3.9	0.369	B	91 × 51 × 43	117.5	B84113H0000B110	×	×
16	2 × 1.5 µF (X2) + 2 × 4700 pF (Y2)	4 × 1.3	0.369	B	91 × 51 × 43	117.5	B84113H0000B116	×	×
20	2 × 2.2 µF (X2) + 2 × 22 nF (Y2)	4 × 1.2	1.73	G	133 × 58 × 53	177	B84113H0000G120	×	×
25	2 × 2.2 µF (X2) + 2 × 22 nF (Y2)	4 × 0.8	1.73	G	133 × 58 × 53	177	B84113H0000G125	×	×
36	2 × 3.3 µF (X2) + 2 × 22 nF (Y2)	4 × 0.5	1.73	G	133 × 58 × 53	177	B84113H0000G136	×	×
<b>SIFI-H: Medical version for very high insertion loss</b>									
<b>SIFI-H: Medizinversion für sehr hohe Dämpfung</b>									
3	2 × 1.0 µF (X2)	4 × 5.9	0	B	63 × 51 × 38	89.5	B84113H0000M030	×	×
6	2 × 1.0 µF (X2)	4 × 3.6	0	B	63 × 51 × 38	89.5	B84113H0000M060	×	×
10	2 × 1.5 µF (X2)	4 × 3.9	0	B	91 × 51 × 43	117.5	B84113H0000M110	×	×
16	2 × 1.5 µF (X2)	4 × 1.3	0	B	91 × 51 × 43	117.5	B84113H0000M116	×	×
20	2 × 2.2 µF (X2)	4 × 1.2	0	G	133 × 58 × 53	177	B84113H0000M120	×	×
25	2 × 2.2 µF (X2)	4 × 0.8	0	G	133 × 58 × 53	177	B84113H0000M125	×	×
36	2 × 3.3 µF (X2)	4 × 0.5	0	G	133 × 58 × 53	177	B84113H0000M136	×	×

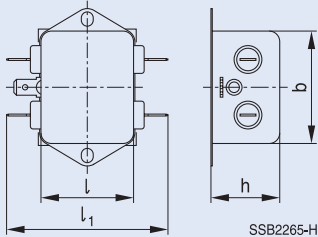
× = approval granted

# SIFI Series F, G, H Baureihe SIFI-F, -G, -H

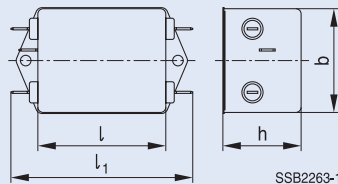
## General Allgemeines



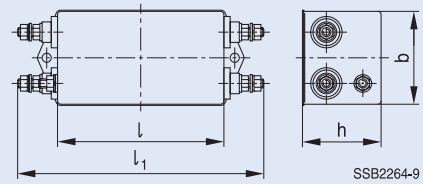
Case style B  
(SIFI-F, ≤ 10 A)  
Gehäuseform B  
(SIFI-F, ≤ 10 A)



Case style B  
Gehäuseform B



Case style G  
Gehäuseform G



- For 1-phase systems
- Metal case
- Potted (UL 94 V-0)
- For switch-mode power supplies and DC applications

### Terminal styles (case styles):

- B: Tab connectors on face ends, lateral fixing lugs or fixing lugs on face ends
- G: Screw terminals M5

Rated voltage: 250 V AC, 50/60 Hz  
250 V DC  
Climatic category: 25/100/21  
Rated temperature: 40 °C

- Für 1-Phasen-Systeme
- Metallgehäuse
- Vergossen (UL 94 V-0)
- Für Schaltnetzteile und DC-Anwendungen

### Anschluss-Varianten (Gehäuse):

- B: Beidseitig Flachstecker, Befestigungslaschen längs- bzw. stirnseitig
- G: Schraubanschlüsse M5

Bemessungsspannung: 250 V AC, 50/60 Hz  
250 V DC  
Klimakategorie: 25/100/21  
Bemessungstemperatur: 40 °C

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